

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 01095006
PUBLICATION DATE : 13-04-89

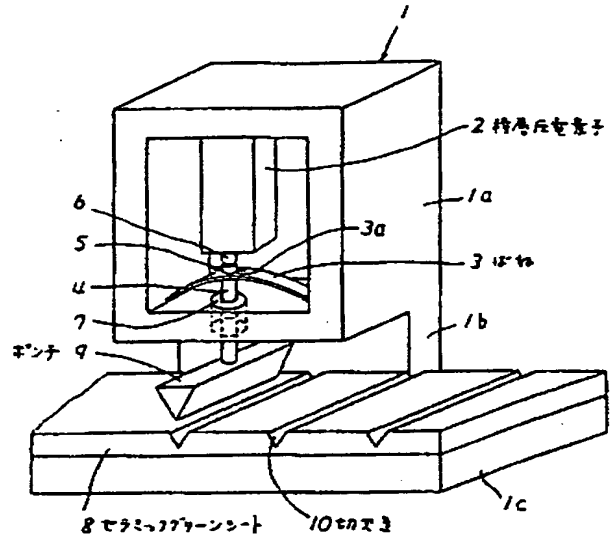
APPLICATION DATE : 07-10-87
APPLICATION NUMBER : 62252669

APPLICANT : FUJI ELECTRIC CO LTD;

INVENTOR : KAWANAMI HIROSHI;

INT.CL. : B28B 11/14

TITLE : NOTCH INTRODUCING DEVICE FOR CERAMIC GREEN SHEET



ABSTRACT : PURPOSE: To introduce a notch for a ceramic green sheet always with good accuracy, enhance production yield, and make a device compact and simple by providing a laminated piezoelectric element with one end fixed, a punch press operated at a free end of said laminated piezoelectric element and a spring to push back said punch to said laminated piezoelectric element side.

CONSTITUTION: A laminated piezoelectric element 2 is stretched rapidly downward by applying direct current voltage to the laminated piezoelectric element 2 to push up and down a punch shaft 4 through a sphere 6 in pressurizingly contact with. As a result, a punch 9 directly coupled with the punch shaft 4 is bitten into a ceramic green sheet 8 to introduce a notch 10. At that time, a force is applied from a split pin 5 to a leaf spring 3, and the central of the spring is deflected to generate a spring force. Notches are introduced continuously into a ceramic green sheet 8 by receiving said process while the timing for transferring the ceramic green sheet 8 is adjusted.

COPYRIGHT: (C)1989,JPO&Japio